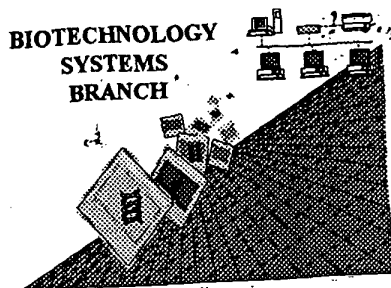


RAW SEQUENCE LISTING **ERROR REPORT**



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/910,346
Source: OPE
Date Processed by STIC: 8/1/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25. Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/910,346

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering
The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length
Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES)
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES)
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
 (NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10 Invalid <213>
 Response
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220>
Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

OIPE

RAW SEQUENCE LISTING

DATE: 08/01/2001

PATENT APPLICATION: US/09/910,346

TIME: 15:16:10

Input Set : A:\Leubont1.app

Output Set: N:\CRF3\08012001\I910346.raw

Does Not Comply
Corrected Diskette Needed

m 1-3,5

3 <110> APPLICANT: STEWARD, LANCE E
 4 HERRINGTON, TODD M
 5 AOKI, KEI R
 7 <120> TITLE OF INVENTION: LEUCINE-BASED MOTIF AND CLOSTRIDIAL NEUROTOXIN
 9 <130> FILE REFERENCE: leucine-based motif and clostridial tx
 11 <140> CURRENT APPLICATION NUMBER: US/09/910,346
 12 <141> CURRENT FILING DATE: 2001-07-20
 14 <160> NUMBER OF SEQ ID NOS: 18
 16 <170> SOFTWARE: PatentIn Ver. 2.1
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 7
 20 <212> TYPE: PRT
 21 <213> ORGANISM: Artificial Sequence
 23 <220> FEATURE:
 24 <223> OTHER INFORMATION: Description of Artificial Sequence: fragment having
 25 properties substantially similar to that of
 26 leucine based sequence
 28 <220> FEATURE:
 29 <223> OTHER INFORMATION: X may be any amino acid or derivatives thereof
 31 <400> SEQUENCE: 1
 32 Xaa Asp Xaa Xaa Xaa Leu Leu
 33 1 5
 36 <210> SEQ ID NO: 2
 37 <211> LENGTH: 7
 38 <212> TYPE: PRT
 39 <213> ORGANISM: Artificial Sequence
 41 <220> FEATURE:
 42 <223> OTHER INFORMATION: Description of Artificial Sequence: fragment having
 43 properties substantially similar to leucine based
 44 motif
 46 <220> FEATURE:
 47 <223> OTHER INFORMATION: X may be any amino acid or derivatives thereof
 49 <400> SEQUENCE: 2
 50 Xaa Glu Xaa Xaa Xaa Leu Leu
 51 1 5
 54 <210> SEQ ID NO: 3
 55 <211> LENGTH: 7
 56 <212> TYPE: PRT
 57 <213> ORGANISM: Artificial Sequence
 59 <220> FEATURE:
 60 <223> OTHER INFORMATION: Description of Artificial Sequence: fragment having
 61 properties substantially similar to that of
 62 leucine based motif
 64 <400> SEQUENCE: 3
 65 Xaa Asp Xaa Xaa Xaa Leu Ile
 66 1 5
 69 <210> SEQ ID NO: 4

see item 9 on Error Summary Sheet

RAW SEQUENCE LISTING

DATE: 08/01/2001

PATENT APPLICATION: US/09/910,346

TIME: 15:16:10

Input Set : A:\Leubontl.app

Output Set: N:\CRF3\08012001\I910346.raw

```

70 <211> LENGTH: 7
71 <212> TYPE: PRT
72 <213> ORGANISM: Artificial Sequence
74 <220> FEATURE:
75 <223> OTHER INFORMATION: Description of Artificial Sequence:fragment having
76     properties substantially similar to that of
77     leucine based motif
79 <400> SEQUENCE: 4
W--> 80 Xaa Asp Xaa Xaa Xaa Leu Met len 9
81     1           5
84 <210> SEQ ID NO: 5
85 <211> LENGTH: 7
86 <212> TYPE: PRT
87 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Description of Artificial Sequence:fragment having
91     properties substantially similar to that of
92     leucine based motif
94 <400> SEQUENCE: 5
W--> 95 Xaa Glu Xaa Xaa Xaa Leu Ile len 9
96     1           5
99 <210> SEQ ID NO: 6
100 <211> LENGTH: 7
101 <212> TYPE: PRT
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Description of Artificial Sequence:fragment having
106     properties substantially similar to leucine based
107     motif
109 <400> SEQUENCE: 6
W--> 110 Xaa Glu Xaa Xaa Xaa Leu Met len 9
111     1           5
114 <210> SEQ ID NO: 7
115 <211> LENGTH: 7
116 <212> TYPE: PRT
117 <213> ORGANISM: Unknown Organism
119 <220> FEATURE:
120 <223> OTHER INFORMATION: Description of Unknown Organism:This fragment may
121     have come from a rat source.
123 <400> SEQUENCE: 7
124 Phe Glu Phe Tyr Lys Leu Leu
125     1           5
128 <210> SEQ ID NO: 8
129 <211> LENGTH: 7
130 <212> TYPE: PRT
131 <213> ORGANISM: rat
133 <220> FEATURE:
134 <223> OTHER INFORMATION: This fragment is commonly known as "Rat VMAT 1".
136 <300> PUBLICATION INFORMATION:

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/910,346

DATE: 08/01/2001

TIME: 15:16:10

Input Set : A:\Leubont1.app

Output Set: N:\CRF3\09012001\I910346.raw

137 <301> AUTHORS: Liu, et al
 138 <302> TITLE: Membrane trafficking of neurotransmitter transporter in
 139 the regulation of synaptic transmission
 140 <303> JOURNAL: Trends in Cell Biology
 141 <304> VOLUME: 9
 142 <306> PAGES: 356-363
 W--> 143 <307> DATE: September 1999
 145 <400> SEQUENCE: 8
 146 Glu Glu Lys Arg Ala Ile Leu
 147 1 5
 150 <210> SEQ ID NO: 9
 151 <211> LENGTH: 7
 152 <212> TYPE: PRT
 153 <213> ORGANISM: rat
 155 <220> FEATURE:
 156 <223> OTHER INFORMATION: This fragment is commonly known as "Rat VMAT 2".
 158 <300> PUBLICATION INFORMATION:
 159 <301> AUTHORS: Liu, et al
 160 <302> TITLE: Membrane trafficking of neurotransmitter transporter in
 161 the regulation of synaptic transmission
 162 <303> JOURNAL: Trends in Cell Biology
 163 <304> VOLUME: 9
 164 <306> PAGES: 356-363
 W--> 165 <307> DATE: September 1999
 167 <400> SEQUENCE: 9
 168 Glu Glu Lys Met Ala Ile Leu
 169 1 5
 172 <210> SEQ ID NO: 10
 173 <211> LENGTH: 7
 174 <212> TYPE: PRT
 175 <213> ORGANISM: rat
 177 <220> FEATURE:
 178 <223> OTHER INFORMATION: This fragment is known as "Rat VACHT".
 180 <220> FEATURE:
 181 <223> OTHER INFORMATION: The at position 1 may be phosphorylated.
 183 <300> PUBLICATION INFORMATION:
 184 <301> AUTHORS: Liu, et al
 185 <302> TITLE: Membrane trafficking of neurotransmitter transporter in
 186 the regulation of synaptic transmission
 187 <303> JOURNAL: Trends in Cell Biology
 188 <304> VOLUME: 9
 189 <306> PAGES: 356-363
 W--> 190 <307> DATE: September 1999
 192 <400> SEQUENCE: 10
 193 Ser Glu Arg Asp Val Leu Leu
 194 1 5
 197 <210> SEQ ID NO: 11
 198 <211> LENGTH: 7
 199 <212> TYPE: PRT

*invalid - use SEP-1999 format**(see 1.823 of
sequence
rules)**The what at position 1?*

RAW SEQUENCE LISTING

DATE: 08/01/2001

PATENT APPLICATION: US/09/910,346

TIME: 15:16:10

Input Set : A:\Leubontl.app

Output Set: N:\CRF3\08012001\I910346.raw

200 <213> ORGANISM: rat
202 <220> FEATURE:
203 <223> OTHER INFORMATION: This fragment is known as "Rat (delta)".
205 <400> SEQUENCE: 11
206 Val Asp Thr Gln Val Leu Leu
207 1 5
210 <210> SEQ ID NO: 12
211 <211> LENGTH: 7
212 <212> TYPE: PRT
213 <213> ORGANISM: mouse
215 <220> FEATURE:
216 <223> OTHER INFORMATION: This fragment is also known as "mouse (delta)".
218 <400> SEQUENCE: 12
219 Ala Glu Val Gln Ala Leu Leu
220 1 5
223 <210> SEQ ID NO: 13
224 <211> LENGTH: 7
225 <212> TYPE: PRT
226 <213> ORGANISM: frog
228 <220> FEATURE:
229 <223> OTHER INFORMATION: This fragment is known as "frog (gamma/delta)".
231 <220> FEATURE:
232 <223> OTHER INFORMATION: The serine at position 1 may be phosphorylated.
234 <400> SEQUENCE: 13
235 Ser Asp Lys Gln Asn Leu Leu
236 1 5
239 <210> SEQ ID NO: 14
240 <211> LENGTH: 7
241 <212> TYPE: PRT
242 <213> ORGANISM: chicken
244 <220> FEATURE:
245 <223> OTHER INFORMATION: This fragment is also known as "chicken
246 (gamma/delta)".
248 <220> FEATURE:
249 <223> OTHER INFORMATION: The serine at position 1 may be phosphorylated.
251 <400> SEQUENCE: 14
252 Ser Asp Arg Gln Asn Leu Ile
253 1 5
256 <210> SEQ ID NO: 15
257 <211> LENGTH: 7
258 <212> TYPE: PRT
259 <213> ORGANISM: sheep
261 <220> FEATURE:
262 <223> OTHER INFORMATION: This fragment is known as "Sheep (delta)".
264 <400> SEQUENCE: 15
265 Ala Asp Thr Gln Val Leu Met
266 1 5
269 <210> SEQ ID NO: 16
270 <211> LENGTH: 7

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/910,346

DATE: 08/01/2001

TIME: 15:16:10

Input Set : A:\Leubont1.app

Output Set: N:\CRF3\08012001\I910346.raw

271 <212> TYPE: PRT
 272 <213> ORGANISM: human
 274 <220> FEATURE:
 275 <223> OTHER INFORMATION: This fragment is known as "Human CD3(delta)".
 277 <220> FEATURE:
 278 <223> OTHER INFORMATION: The serine at position 1 may be phosphorylated.
 280 <300> PUBLICATION INFORMATION:
 281 <301> AUTHORS: Liu, et al
 282 <302> TITLE: Membrane trafficking of neurotransmitter transporter in
 283 the regulation of synaptic transmission
 284 <303> JOURNAL: Trends in Cell Biology
 285 <304> VOLUME: 9
 286 <306> PAGES: 356-363
 W--> 287 <307> DATE: September 1999
 289 <400> SEQUENCE: 16
 290 Ser Asp Lys Gln Thr Leu Leu
 291 1 5
 294 <210> SEQ ID NO: 17
 295 <211> LENGTH: 7
 296 <212> TYPE: PRT
 297 <213> ORGANISM: human
 299 <220> FEATURE:
 300 <223> OTHER INFORMATION: This fragment is known as "Human CD4".
 302 <220> FEATURE:
 303 <223> OTHER INFORMATION: The serine at position 1 may be phosphorylated.
 305 <300> PUBLICATION INFORMATION:
 306 <301> AUTHORS: Liu, et al
 307 <302> TITLE: Membrane trafficking of neurotransmitter transporter in
 308 the regulation of synaptic transmission
 309 <303> JOURNAL: Trends in Cell Biology
 310 <304> VOLUME: 9
 311 <306> PAGES: 356-363
 W--> 312 <307> DATE: September 1999
 314 <400> SEQUENCE: 17
 315 Ser Gln Ile Lys Arg Leu Leu
 316 1 5
 319 <210> SEQ ID NO: 18
 320 <211> LENGTH: 7
 321 <212> TYPE: PRT
 322 <213> ORGANISM: human
 324 <220> FEATURE:
 325 <223> OTHER INFORMATION: This fragment is known as "Human (delta)".
 327 <400> SEQUENCE: 18
 328 Ala Asp Thr Gln Ala Leu Leu
 329 1 5

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/910,346

DATE: 08/01/2001

TIME: 15:16:11

Input Set : A:\Leubont1.app

Output Set: N:\CRF3\08012001\I910346.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:32 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
L:32 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1
L:32 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:50 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:50 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:50 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:65 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:65 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:65 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:80 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4
L:80 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4
L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:95 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:5
L:95 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:5
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:110 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6
L:110 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6
L:110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:143 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:8
L:165 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:9
L:190 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:10
L:287 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:16
L:312 M:285 W: Invalid Journal Date Format:Use YYYY-MM-DD,Mon-YYYY,Season-YYYY,or YYYY, SEQ:17